

Complete this section for each surface water outfall excluding those that discharge only storm water.

## II. WASTEWATER CHARACTERIZATION, TREATMENT, and DISPOSAL

### B. SPECIFIC OUTFALL INFORMATION

#### Surface Water Outfall Information for OUTFALL \_\_\_\_\_

1. Receiving Water

2. Outfall Location Description (for example, east bank of Wisconsin River one-quarter mile down stream of Second Street bridge)

3. Wetlands - Does this outfall discharge to a wetland?

☐ No. (continue to 4)

☐ Yes. If yes, are you requesting increased (less restrictive) effluent limitations for this outfall or will the discharge from this outfall increase over the next 5 years?

☐ No. (continue to 4)

☐ Yes. If yes, you may be required to submit a wetland evaluation with this application. See the instructions for more information.

4. Seasonal or Intermittent Discharges (check only one of the boxes and provide information requested)

☐ Discharge is year round.

☐ Discharge is seasonal (specify) From: \_\_\_\_\_ Through: \_\_\_\_\_.

From: \_\_\_\_\_ Through: \_\_\_\_\_.

☐ Discharge is intermittent (attach a description of the frequency, duration and flow rate of each discharge occurrence, except for storm water runoff and spillage or leaks)

5. Type of Wastewater Discharged (check all that apply to this outfall)

Average Flow (specify units)

☐ Noncontact Cooling Water

\_\_\_\_\_

☐ Contact Cooling Water

\_\_\_\_\_

☐ Sanitary Wastes

\_\_\_\_\_

☐ Process Wastewater

\_\_\_\_\_

☐ Storm Water

\_\_\_\_\_

☐ Boiler Blowdown

\_\_\_\_\_

☐ Cooling Tower Blowdown

\_\_\_\_\_

☐ \_\_\_\_\_

\_\_\_\_\_

☐ \_\_\_\_\_

\_\_\_\_\_

6. Discharge Flow Rates - Specify in gallons per day (gpd) or million gallons per day (MGD) the maximum discharge flow rates that have occurred during the term of the current permit.

Flow (specify units)

Time Period when flow occurred

Maximum Day \_\_\_\_\_

\_\_\_\_\_

Maximum 7-day Average \_\_\_\_\_

\_\_\_\_\_

Maximum 30-day Average \_\_\_\_\_

\_\_\_\_\_

Maximum Annual Average \_\_\_\_\_

\_\_\_\_\_

## B. SPECIFIC OUTFALL INFORMATION

### Surface Water Outfall Information for OUTFALL \_\_\_\_\_

7. Process Streams Contributing to the Outfall Discharge - Identify and provide the Standard Industrial Classification (SIC) code for each production process that contributes wastewaters to this outfall discharge. If a technology-based effluent standard is applicable to the process wastewater, provide the production rate for the process.

Process Name (if applicable) \_\_\_\_\_ Process SIC Code \_\_\_\_ \_

Description and production rates

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Process Name (if applicable) \_\_\_\_\_ Process SIC Code \_\_\_\_ \_

Description and production rates

8. Treatment System Description - Describe any treatment given to wastewaters prior to discharge from this outfall.

9. Schematic Diagram of Treatment System - Attach to this application a schematic diagram of your wastewater treatment system for this outfall. Show all bypasses, sample locations and treatment units and processes.

10. Effluent Flow Monitoring and sampling

Flow Monitoring Type & Age \_\_\_\_\_

Flow Monitoring Location \_\_\_\_\_

Effluent Composite Sample Location \_\_\_\_\_

Effluent Grab Sample Location \_\_\_\_\_

11. Sludge Disposal - Does your wastewater treatment system produce a sludge?

- ☐ No. (continue to next question)  
☐ Yes. If yes, where do you dispose your wastewater treatment system sludge?

- ☐ Land Application  
☐ Landfill  
☐ Haul to or by Other Permitted Facility

Facility Name

WPDES Permit No. WI- \_\_\_\_\_

- ☐ Other

## B. SPECIFIC OUTFALL INFORMATION

### Surface Water Outfall Information for OUTFALL \_\_\_\_\_

12. Additives - Provide the number of biocides, water quality conditioners and process additives that you add to the waters discharged from this outfall.

- \_\_\_\_\_ Biocides (chlorine and other halogens, fungicides, algicides, herbicides, bacterial control chemicals, etc.)
- \_\_\_\_\_ Water Quality Conditioners (water and wastewater treatment chemicals including scale and corrosion inhibitors, chemical conditioning agents, pH adjustment chemicals, dechlorination chemicals, alum, ferric chloride, ferrous sulfate or chloride (pickle liquor) polymers, ammonia, phosphorus, defoamers, etc.)
- \_\_\_\_\_ Process Additives (limited to dyes and surfactant-based detergents)
- \_\_\_\_\_ How many of the biocides are used less frequently than once in any four day period?
- \_\_\_\_\_ How many of the water quality conditioners and process additives are used less frequently than once in any four day period?

13. Biological Toxicity Data - In the last five years, have any biological tests for acute or chronic toxicity been made on the discharge from this outfall or on the receiving water in relation to the discharge from this outfall?

- ☐ No. (continue to the next section of the application)
- ☐ Yes. If yes, provide all test dates and types below and attach to this application test results **for those tests not previously submitted to the Department.**

<u>Dates</u>	<u>Type or Test</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

14. Alternative Phosphorus Effluent Limitation - If your current permit contains a 1 mg/L total phosphorus effluent limitation and you wish to request an alternative effluent limitation for phosphorus, or if your current permit already contains an alternative effluent limitation for phosphorus and you would like retain or modify the alternative limit in the reissued permit, you must demonstrate that the 1 mg/L total phosphorus effluent standard is not achievable and provide information that is necessary for the Department to establish an alternative limit. The demonstration and alternative limit information must be submitted with this application even though you may already have an alternative phosphorus limit in your current permit. Use the Alternative Phosphorus Effluent Limitation Information Request discussed in the Contents of Your Application part of the instructions.

# INSTRUCTIONS

## Surface Water Outfall Information

This section of the application must be completed for each surface water outfall excluding those that discharge only storm water runoff. If you have more than one such outfall, your application packet should contain a copy for each outfall identified with an outfall number. If you have a surface water outfall that has not been previously permitted, you should contact the Department for another copy of this form. Or you may make a copy of one of the forms you received before filling it out, change the outfall identifier number on the copy and complete the form with the new outfall information.

**Item 1. Receiving Water** - Specify the name of the receiving water to which the outfall discharges.

**Item 2. Outfall Location** - You may use the site map that you provided for Section I, E to determine the latitude and longitude (to nearest 15 seconds) of the outfall.

**Item 3. Wetlands** - Indicate whether or not the outfall discharges to a wetland. Contact the permit drafter identified in the cover letter that accompanied the application if you are unsure whether or not the receiving water is a wetland.

If you are requesting increased (less restrictive) effluent limitations or you anticipate that the volume of your discharge will increase over the term of the reissued permit and your discharge will potentially impact a wetland directly or indirectly, you are required to provide additional information with the permit reissuance application pursuant to Wisconsin Administrative Code, Chapter NR 103, Water Quality Standards.

If you have not already received a list of the information that you must provide, i.e., the "Chapter NR 103 Water Quality Standards for Wetlands Information Request, as discussed in the Contents of Your Application part of these instructions, you can download it from the Department's web site or you may contact the permit drafter identified in the cover letter that accompanied this application.

**Item 4. Seasonal or Intermittent Discharges** - A discharge is seasonal if it occurs only during certain periods of the year. For seasonal discharges, provide the period from starting month to ending month during which wastewater is discharged.

A discharge is intermittent unless it occurs without interruption during the operating hours of the facility. Exceptions include infrequent shutdowns for maintenance, process changes or other similar activities. For intermittent discharges, describe on a separate sheet of paper the frequency of discharge and the duration and volume of each discharge with the exception of storm water runoff and spillage or leaks.

**Item 5. Type of Wastewater Discharged** - Indicate the types of wastewater discharged from the outfall. Acceptable units for the average (i.e., annual average) flow are gallons per day (gpd) and million gallons per day (MGD). If water is first used for one purpose and then is subsequently used for another purpose, indicate the type and amount for the last use. The sum of all the flows provided in response to this item should equal the annual average flow for the outfall.

*"Noncontact Cooling Water"* means water used for cooling which does not come into contact with any raw material, intermediate or finished product, or waste product and has been used in heat exchangers, air or refrigeration compressors, or other cooling means where contamination with process waste, other than heat, is not normally expected.

*"Contact Cooling Water"* means water used for cooling which comes into contact with a raw material, intermediate or finished product, or waste product other than heat.

"*Sanitary Wastewater*" means wastes and wastewaters from lavatories, washrooms, lunch/break room sinks, showers, etc.

"*Process Wastewater*" Means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product, and is likely to contain in solution or suspension various components of such raw materials or products. Contact cooling water flow, while normally classified as a process wastewater, should not be included in the average flow of process wastewater provided in response to this item of the application.

"*Storm Water*" means water resulting from melting snow, rainfall or other precipitation.

"*Boiler Blowdown*" means water that is periodically or, in some cases, continuously purged from a boiler to prevent the buildup of materials in the boiler above the limits of best engineering practice.

"*Cooling Tower Blowdown*" means water that is periodically or, in some cases, continuously purged from a recirculating cooling system that uses an open tower to dissipate heat. Blowdown is discharged from the system to prevent the buildup of materials in the cooling water above the limits of best engineering practice.

"*Other*" means any other wastewater type not previously listed such as the discharge from drinking fountains and bubblers, landfill leachate, etc.

**Item 6. Discharge Flow Rates** - Provide the requested maximum discharge flow rates for the outfall and identify the date or dates that the maximum discharges occurred. You may use any discharge data that were collected during the term of the current permit if the data represent potential flow rates from current operations. Acceptable units for the flow rates are gallons per day (gpd) and million gallons per day (MGD).

**Item 7. Process Streams Contributing to the Outfall Discharge** - Provide the Standard Industrial Classification (SIC) code for each production process that contributes process wastewaters to the discharge from the outfall. Briefly describe the production process and, if a technology-based (categorical) effluent standard is applicable to the production process, provide the production rate for the process. If you are unsure whether or not technology-based effluent standards are applicable to your facility, contact the permit drafter identified in the cover letter that accompanied this application.

**Item 8. Treatment System Description** - The description of the wastewater treatment system should include all physical, chemical and biological treatment units including sludge treatment units. Examples include but are not limited to flocculation, filtration, reverse osmosis, sedimentation, carbon adsorption, chemical precipitation, coagulation, dechlorination, disinfection (chlorination), ion exchange, neutralization, biological oxidation (e.g., activated sludge, aerated lagoons, etc.), aerobic and anaerobic digestion, belt or pressure filtration, heat treatment, etc.

**Item 9. Schematic Diagram of Treatment System** - Attach a schematic diagram of the wastewater treatment system showing all treatment units and processes that you identified in the previous item and any treatment system bypasses. Indicate the location of all sample points and outfalls that are specified in the permit and addition points of treatment chemicals and additives (for example, identify points of addition of pH adjustment chemicals, alum, polymers, nutrients such as ammonia and phosphorus, defoamers, chlorine and dechlorination chemicals, etc.).

**Item 10. Effluent Flow Monitoring and Sampling** - Identify the flow monitoring type as a "V" notch weir, Parshall flume, magnetic flow meter, etc. and provide its age, location and date of last calibration. Indicate the location of all composite sampling devices and all locations where effluent grab samples will be taken.

**Item 11. Sludge Disposal** - Indicate the method of disposal for wastewater treatment system sludge, if any is generated.

**Item 11. Additives** - Report the number of biocides, water quality conditioners and certain process additives that you add to the waters that are discharged from this outfall. Rather than reporting the total number of additives used over a long period of time, report the maximum number of additives that may be used during any one day. Include those biocides that are used to treat intake waters, added as part of the production process and used to treat wastewaters. Include those water quality conditioners (excluding biocides) that are used to treat intake waters and wastewaters. Report the number of dyes and surfactant-based detergents used in production processes. Note whether any additives are used less frequently than once in any four-day period.

**Item 12. Biological Toxicity Data** - Indicate whether or not acute or chronic toxicity tests were performed on either the receiving water or the discharge from this outfall in the last 5 years. Provide test dates and type of test (acute or chronic) and attach test results for those test not previously submitted to the Department.